

# SunSet™ xDSL

Aug 1997

what about line protection  
CE approvals - directives  
Need a product definitions labels, screens,  
TDR implementation, ADSL  
presentation  
We need to plan our equipment  
development req. to Alcatel

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## PRELIMINARY SPECIFICATIONS

### CONNECTORS

ADSL interface: RJ45 and Bantam.  
POTS interface: RJ11 handset.  
Serial Port - 8 pin Mini DIN RS232C (V.24), DTE.  
DC power jack.

### DIGITAL DMM

#### DCV

0 - 350V full-scale measurement  
0 - 4V range, +/- 15 mV  
0 - 40V range, +/- 150 mV  
0 - 350V range, +/- 1.5V

#### ACV

0 - 275 VAC full-scale measurement  
From 50 - 500 Hz  
0 - 4V range, +/- 25 mV  
0 - 40V range, +/- 250 mV  
0 - 275V range, +/- 2.5V  
From 500 Hz - 1 kHz  
0 - 4V range, +/- 87 mV  
0 - 40V range, +/- 870 mV  
0 - 275V range, +/- 8.7V

#### DCA

0 - 400 mA full-scale measurement  
0 - 40 mA range, +/- 230 uA  
0 - 400 mA range, +/- 2.3 mA

#### ACA

0 - 400 mA full-scale measurement  
From 50 - 500 Hz  
0 - 40 mA range, +/- 430 uA  
0 - 400 mA range, +/- 4.3 mA

#### Resistance

0.1 ohm - 10 Mohm full-scale measurement  
0.1 - 400 ohm range, +/- 4.7 ohm  
0.1 - 4 kohm range, +/- 27 ohm  
0.1 - 40 kohm range, +/- 270 ohm  
0.1 - 400 kohm range, +/- 4 kohm  
0.1 - 4 Mohm range, +/- 150 kohm  
0.1 - 10 Mohm range, +/- 800 kohm

#### Capacitance

10 pF - 40 uF full-scale measurement  
10 pF - 4 nF range, +/- 85 pF  
10 pF - 40 nF range, +/- 850 pF  
10 pF - 0.4 uF range, +/- 8.5 nF  
10 pF - 4 uF range, +/- 85 nF  
10 pF - 40 uF range, +/- 850 nF

### DIGITAL TIMS

Wideband TIMS: 10 kHz to 1.5 MHz  
Resolution: 375 Hz  
Level

Tx: -30 to 16 dBm  
Rx: -60 to 14 dBm

Flatness: 0.1 dB

Output Impedance: 100 ohm

Signal to Noise (S/N) measurement

### TDR

#### Range\*

10 - 22,000 ft for 22 AWG  
10 - 18,000 ft for 24 AWG  
10 - 12,000 ft for 26 AWG

#### Pulse

1/2 square wave

#### Amplitude

5 Vpp into 100 ohm  
10 Vpp into open circuit

#### Width

20 ns - 5 us

Adjustable velocity: 0.4 to 0.99

Output Impedance: 100 ohm

#### Accuracy

10 - 1000 ft, +/- 4 ft  
1000 - 22,000 ft, +/- 6 ft

Display results to LCD screen.

Store 3 previous test results in graphical format.

\* Dependent upon condition of wire and the number of bridge taps

### ALCATEL ADSL PLUG-IN MODULE

Alcatel 3.0 chip set implementation.

Establish ADSL link with far end modem.

Up/down stream bit rate verification and BERT test.

IEEE 743 F & G filter noise measurement

Signal to Noise (S/N) measurement

Other modules to be announced.

RCP  
PM  
K.C.C.  
TD  
RK  
VW  
CLW  
MM  
SG  
RC  
IP

Please  
provide me with feedback  
by our 9/23/97 meeting.

George

add item to spec

probably wrong

what frequencies

6 pots settings

7 our design

11/2

D

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## ~~POTS SPLITTER EMULATION~~

Emulate POTS splitter applications.  
Provide direct handset interface/built-in hook control.  
POTS shunt circuit on/off control.

*no longer in there*

## GENERAL

Size: 10.5 x 6 x 27 cm (4 x 2.4 x 10.5")

Weight: 1.3 Kg (2.8 lb)

Construction: PC+ABS high-impact plastic.

Display: 32x16 graphic LCD with backlight.

18 bi-color LEDs.

Battery: Rechargeable, field-replaceable NiMH pack.

Provides 5 hrs of continuous use (nominal).

Charger: Universal design with IEC power cable connector.

11 x 6 x 3.5 cm (4.3 x 2.4 x 1.4") with 122 cm (4')  
extension cable attached.

9.75 oz.

100 VAC - 240 VAC input.

15 VDC, 2A output.

Fast recharge in 3 hours (nominal).

UL, CSA, CE approved.

Upgrade options via field-replaceable SunWare™ cartridge.

## ENVIRONMENTAL

Operating temperature: 0 to 50 °C (32 to 122 °F)

Storage temperature: -20 to 70 °C (-4 to 158 °F)

Humidity: 5% to 90% noncondensing

Note: Specifications subject to change without notice.